

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: SHAPER

Report Number: P702059

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-GCC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702059
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-8)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-GCC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

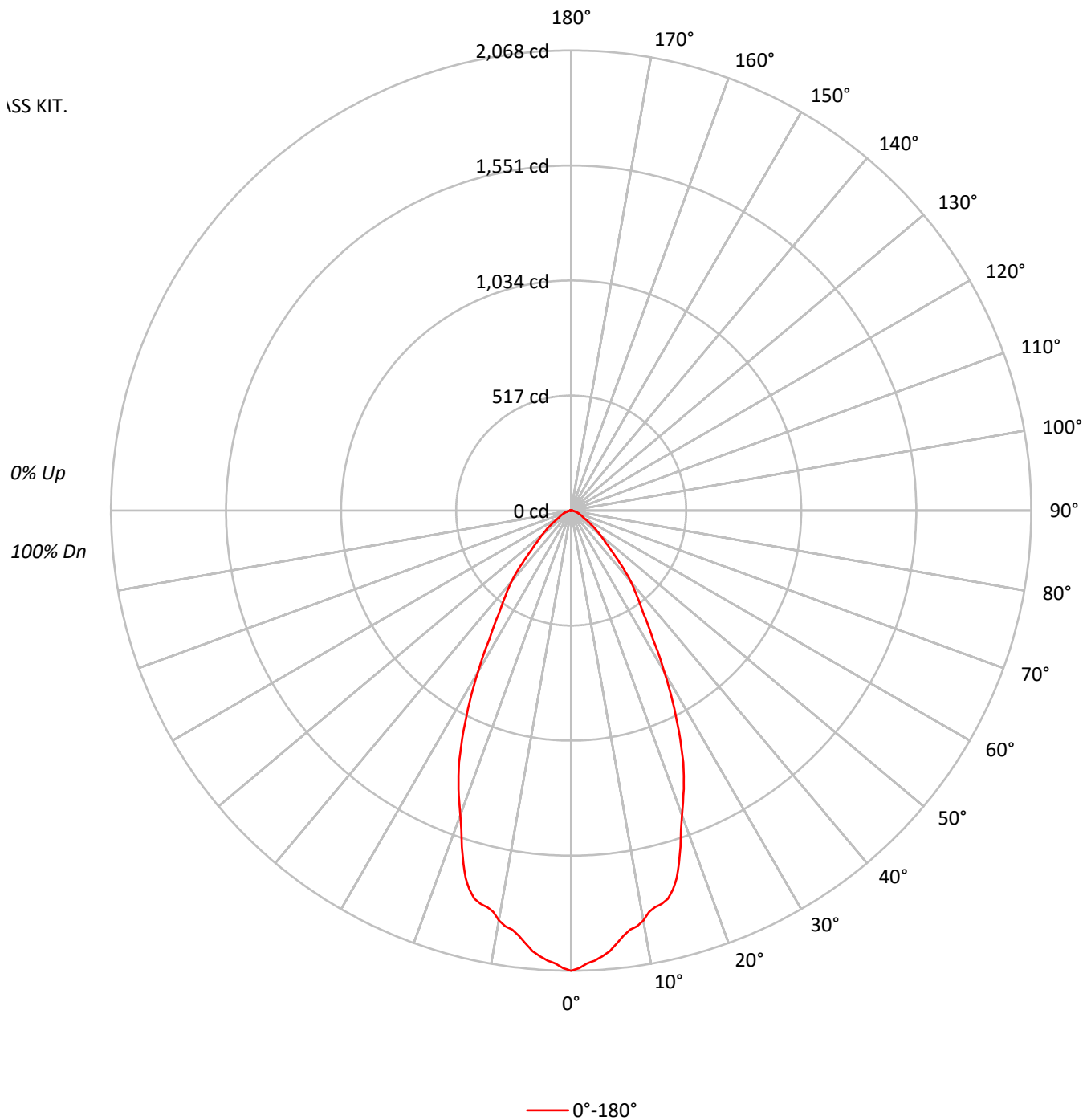
Lumens per Lamp: N/A
Luminaire Lumens: 1951.6 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	101	96	92	104	99	95	91	95	92	89		92	89	87		89	87	85	83
3	100	93	87	83	98	91	86	82	88	84	80		86	82	79		84	81	78	76
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	72	70
5	89	80	73	68	87	79	72	68	77	71	67		75	70	67		73	69	66	64
6	84	74	68	63	82	73	67	63	72	66	62		70	65	62		69	65	61	60
7	79	69	63	58	78	69	62	58	67	62	58		66	61	57		65	60	57	55
8	75	65	58	54	74	64	58	54	63	58	54		62	57	53		61	56	53	52
9	71	61	55	50	70	61	54	50	60	54	50		59	53	50		58	53	50	48
10	68	58	51	47	67	57	51	47	56	51	47		55	50	47		55	50	47	45

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	239911
5°	231467
10°	220270
15°	211848
20°	179734
25°	149933
30°	112230
35°	80578
40°	63590
45°	42171
50°	30801
55°	21819
60°	15031
65°	12926
70°	11326
75°	9679
80°	7881
85°	7851

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 42171 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	9.5
10°-20°	481.0	24.6
20°-30°	529.1	27.1
30°-40°	366.9	18.8
40°-50°	209.2	10.7
50°-60°	99.4	5.1
60°-70°	47.1	2.4
70°-80°	23.0	1.2
80°-90°	6.7	0.3
90°-100°	2.4	0.1
100°-110°	1.6	0.1
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1195.4	61.2
0°-40°	1562.2	80.0
0°-60°	1870.8	95.9
0°-90°	1947.6	99.8
90°-120°	4.0	0.2
90°-150°	4.0	0.2
90°-180°	4.0	0.2
0°-180°	1951.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2068	
5°	1988	185
15°	1764	481
25°	1172	529
35°	569	367
45°	257	209
55°	108	99
65°	47	47
75°	22	23
85°	6	6
90°	2	1
95°	2	2
105°	2	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2068.5
1°	2056.8
2°	2037.1
3°	2025.4
4°	2007.7
5°	1988.1
6°	1956.7
7°	1925.3
8°	1901.7
9°	1891.9
10°	1870.3
11°	1837.0
12°	1821.3
13°	1813.4
14°	1797.7
15°	1764.3
16°	1719.2
17°	1658.4
18°	1589.7
19°	1517.1
20°	1456.2
21°	1403.2
22°	1350.2
23°	1295.3
24°	1238.4
25°	1171.6
27.5°	1002.9
30°	838.0
32.5°	683.0
35°	569.1
37.5°	486.7
40°	420.0
42.5°	335.6
45°	257.1
47.5°	206.1
50°	170.7
52.5°	139.3
55°	107.9
57.5°	82.4
60°	64.8
62.5°	55.0
65°	47.1
67.5°	39.3
70°	33.4
72.5°	27.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	21.6
77.5°	15.7
80°	11.8
82.5°	7.9
85°	5.9
87.5°	3.9
90°	2.0
92.5°	2.0
95°	2.0
97.5°	2.0
100°	3.9
102.5°	2.0
105°	2.0
107.5°	0.0
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)